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# 1. Description of the application

This is a protected currency converter application that uses a public currency converter API (<a href="https://currencylayer.com/documentation">https://currencylayer.com/documentation</a>) to make currency exchange queries. The application allows to save queries and see the historical of the queries that the user has saved. After a successful register, the user should sign in to be able to use all features. The application supports internalization (English and German). The application also provides a RESTful Web Services in order to integrate third party software.

### 2. Technologies used in this application

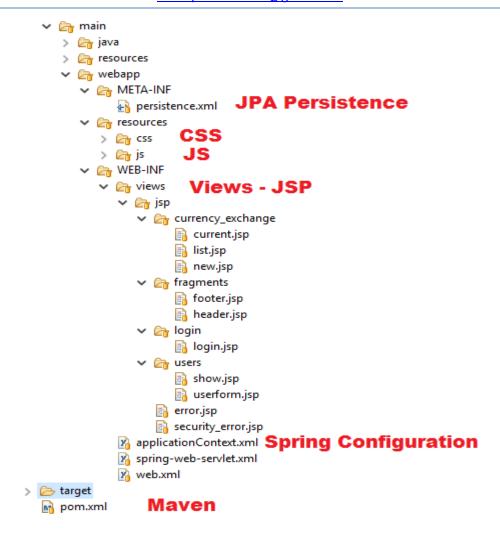
- JDK 1.8
- Spring (Core, MVC) 4.1.6.RELEASE
- Spring Security 3.2.3.RELEASE
- Hibernate 3.6.9.Final
- HSQLDB 2.3.2
- Servlet API 3.1.0
- Ehcache 2.6.10
- Jackson 2.6.3
- JSON 20151123
- JSTL 1.2
- Jetty 9.2.7.v20150116
- Maven 3.0.3
- Eclipse 3.6
- Logback 1.1.3
- SLF4J 1.7.12

### 3. Project Structure

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▼ " currency-converter-application [currency-exchange-converter master]
> 👰 JAX-WS Web Services
> 🛅 Deployment Descriptor: currency-converter-application
✓ 🥮 Java Resources
✓ company state of the state o
CurrencyExchangeRateAPI.java
<ul> <li>A CurrencyRatesAPI.java</li> <li>tom.currency.converter.config Spring Configuration</li> </ul>
> [A SpringLocaleConfig.java
> PringWebConfig.java
→ the com.currency.converter.dao DAO
> [A CurrencyExchangeQueryDao.java
> 🖟 CurrencyExchangeQueryDaolmpl.java
> 🖟 UserDao.java
> 🖟 UserDaolmpl.java
com.currency.converter.exception Exception Handler
> 🖟 GlobalExceptionHandler.java
→ ⊕ com.currency.converter.memorycache Memory Cache
> 📝 Cache,java
→ ⊕ com.currency.converter.model Model
> [A] CurrencyExchangeQuery.java
> [A CurrencyExchangeQueryForm.java
> [A CurrencyExchangeRate.java
> 🖟 User.java
> [A] RESTController.java
<ul> <li>CustomUserDetails.java</li> <li>CustomUserDetailsService.java</li> </ul>
> [A CurrencyExchangeQueryService.java
>
> UserService.java
> UserServiceImpl.java
v to com.currency.converter.validator Validators
> ParailValidator.java
> UserFormValidator.java
> ZipCodeValidator.java
com.currency.converter.web Controller
> [A CurrencyExchangeController.java
> Da LoginController.java
> UserController.java
✓ 🚑 src/main/resources
✓ 🔓 db
db.properties DB Properties
✓ 🕞 messages
messages_de.properties
mercages en properties
alidation_de.properties
alidation_en.properties
ehcache configuration
logback.xml log configuration
> 🛋 Libraries
> 📥 JavaScript Resources
> 🔓 Deployed Resources

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# 4. Run application

- Git Clone https://github.com/migueldelprado/currency-exchange-converter.git
- mvn package
- java -jar target/dependency/jetty-runner.jar target/\*.war
- Go to <a href="http://localhost:8080">http://localhost:8080</a>

# 5. Configuration Ehcache

• File /currency-converter-application/src/main/resources/ehcache.xml

#### 6. RESTful Web Service

• Controller under Java class:

<sup>\*</sup>Internet connection is requiered to run the application

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/currency-converter-application/src/main/java/com/currency/converter/rest/RESTController.java

#### • Get information about an user

- o HTTP GET should be used
- URL \${application-context}/restful/users/{id}
- o {id} User ID

#### • Add a new user

- o HTTP POST should be used
- URL \${application-context}/restful/users/add

```
{
    "name": "Miguel",
    "email": "miguel@example.com",
    "dateOfBirth": 554774400000,
    "password": "123456",
    "street": "Strasse 2",
    "zipCode": 81369,
    "city": "Boston",
    "country": "US"
}
```

#### Update an existing user

- o HTTP PUT should be used
- URL \${application-context}/restful/users/update/{id}

#### Get historical queries for an user

- o HTTP GET should be used
- URL \${application-context}/restful/currency\_exchange/{id}
- o {id} User ID

# 7. Application running under

http://currency-exchange-converter.herokuapp.com/